



Atty. Docket No.: 4231/2032

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Liew, et al.
Serial No.: 10/649,959
Filed: August 26, 2003
Entitled: "Beta-2 Microglobulin (B2M) and
B2M Related Gene Products for the
Regulation of Osteoarthritis
Pathogenesis and Chondrocyte
Proliferation"

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Conf. No.: Not Yet Assigned

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8a

I hereby certify that this correspondence (and any paper or fee referred to as being enclosed) is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Brenda M. Woods

Name of Person Mailing Paper

Signature of Person Mailing Paper

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Enclosed for filing in the above-identified patent application, please find the following documents:

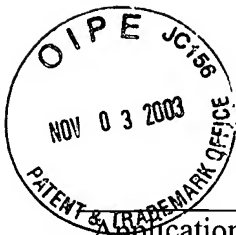
1. Information Disclosure Statement;
2. Form PTO-1449;
3. Copies of Cited References; and
4. Return Post Card.

The Commissioner for Patents is hereby authorized to charge any additional fees or credit any overpayment in the total fees to Deposit Account No. 16-0085, Reference No. 4231/2032. A duplicate of this transmittal letter is enclosed for this purpose.

Respectfully submitted,

Date: October 30, 2003

Name: Mark J. FitzGerald
Registration No.: 45,928
Palmer & Dodge LLP
111 Huntington Avenue
Boston, MA 02199-7613
Tel: 617-239-0100



Atty. Docket No.: 4231/2032

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Liew, et al.
Serial No.: 10/649,959
Filed: August 26, 2003
Entitled: "Beta-2 Microglobulin (B2M) and
B2M Related Gene Products for the
Regulation of Osteoarthritis
Pathogenesis and Chondrocyte
Proliferation"

Examiner: Not Yet Assigned
Group Art Unit: Not Yet Assigned
Conf. No.: Not Yet Assigned

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8a

I hereby certify that this correspondence (and any paper or fee referred to as being enclosed) is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Brenda M. Woods

Name of Person Mailing Paper

Signature of Person Mailing Paper

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§§ 1.56, 1.97 AND 1.98**

Dear Sir:

In accordance with the duty of disclosure under 37 CFR § 1.56, Applicant submits this Information Disclosure Statement pursuant to 37 CFR §§ 1.97 and 1.98 in the above-identified application for consideration by the Patent Office.

A listing of the cited documents is also enclosed, as well as, for the Examiner's convenience, copies of the documents in the list.

Pursuant to CFR § 1.97(b)(3), because this Statement is being submitted before the first Office Action on the merits, no fee is required.

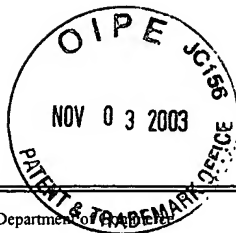
Applicant does not intend to represent that any of the documents submitted herein are material prior art to this invention or that the list represents an exhaustive search of documents related to this invention.

Applicant respectfully requests that the documents submitted herein be considered and made of record in this application.

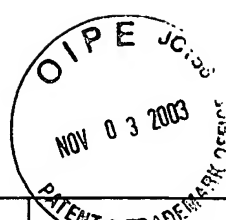
Respectfully submitted,

Date: October 30, 2003

Name: Mark J. FitzGerald
Registration No.: 45,928
Palmer & Dodge LLP
111 Huntington Avenue
Boston, MA 02199-7613
Tel: 617-239-0100



USPTO Form 1449 U.S. Department of Commerce Patent and Trademark Office				Attorney Docket No. 4231/2032		Serial No. 10/649,959	
INFORMATION DISCLOSURE STATEMENT				Applicant(s): Liew, et al.			
				Filing Date: August 26, 2003		Group: Not Yet Assigned	
U.S. PATENT DOCUMENTS							
Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document No.	Publication Date	Country	Class	Subclass	Translation
							YES NO
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)							
	1.	Ohashi, K., "Pathogenesis of β_2 -microglobulin amyloidosis", <i>Pathol Int</i> , (2001); 51:1-10.					
	2.	Moe, S.M. et al., " β_2 -Microglobulin induces MMP-1 but not TIMP-1 expression in human synovial fibroblasts", <i>Kidney International</i> , (2000), 57:2023-2034.					
	3.	Rodriguez, J. et al., "Serum β_2 -Microglobulin Levels Are a Significant Prognostic Factor in Philadelphia Chromosome-positive Chronic Myelogenous Leukemia", <i>Clin Cancer Res</i> , (2000), 6:147-152.					
	4.	Cantatore, F.P. et al., "Evaluation of Bone Turnover and Osteoclastic Cytokines in Early Rheumatoid Arthritis Treated with Alendronate", <i>J Rheumatol.</i> , (1999), 26:2318-2323.					
	5.	Migita, K. et al., "Induction of cyclooxygenase-2 in human synovial cells by β_2 -microglobulin", <i>Kidney International</i> , (1999), 55:572-578.					
	6.	Migita, K. et al., " β_2 -Microglobulin Induces Stromelysin Production by Human Synovial Fibroblasts", <i>Bioch. and Biophys. Res. Commu.</i> , (1997), 239:621-625.					
	7.	Söderblom, T. et al., "Pleural Fluid Beta-2-Microglobulin and Angiotensin-Converting Enzyme Concentrations in Rheumatoid Arthritis and Tuberculosis", <i>Respiration</i> , (1996), 63:272-276.					
	8.	Bindi, P., et al., "Destructive Spondyloarthropathy in Dialysis Patients: An Overview", <i>Nephron</i> , (1990), 55:104-109.					
	9.	Brinckerhoff, C.E. et al., "Autocrine Induction of Collagenase by Serum Amyloid A-Like and β_2 -Microglobulin-Like Proteins", <i>Science</i> , (1989), 243:655-657.					
	10.	Homma, N. et al., "Collagen-Binding Affinity of Beta-2-Microglobulin, a Preprotein of Hemodialysis-Associated Amyloidosis", <i>Nephron</i> , (1989), 53:37-40.					
	11.	Walters, M.T. et al., "Comparison of serum and synovial fluid concentrations of β_2 -microglobulin and C reactive protein in relation to clinical disease activity and synovial inflammation in rheumatoid arthritis", <i>Ann Rheum Dis</i> , (1989), 48:905-911.					



12.	Hoelzlman, J.H., et al., "Specific Associations of Fluorescent β -2-Microglobulin with Cell Surfaces", <i>J Immunol</i> , (1988), 140:2322-2329.
13.	Revillard, J.P. et al., "Structure and Metabolism of Beta-2-Microglobulin", <i>Contrib Nephrol</i> , (1988), 62:44-53.
14.	Schardijn, G.H. et al., " β_2 -microglobulin: Its significance in the evaluation of renal function", <i>Kidney Int</i> , (1987), 32:635-641.
15.	Bardin, T. et al., "Synovial Amyloidosis in Patients Undergoing Long-Term Hemodialysis", <i>Arthritis Rheum</i> , (1985), 28(9):1052-1058.
16.	Gejyo, F. et al., "A New Form of Amyloid Protein Associated with Chronic Hemodialysis was Identified as β_2 -Microglobulin", <i>Biochem Biophys Res Commun</i> , (1985), 129(3):701-706.
17.	Bernabeu, C. et al., " β_2 -Microglobulin from serum associates with MHC class I antigens on the surface of cultured cells", <i>Nature</i> , (1984), 308:642-645.
18.	Bataille, R. et al., "Serum beta ₂ microglobulin and survival duration in multiple myeloma: a simple reliable marker for staging", <i>Br J Haematol</i> , (1983), 55:439-447.
EXAMINER	
DATE CONSIDERED	
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.</p> <p>**Copies of references not provided at the time of this submission.</p>	